

AMENDMENT UNDER 37 C.F.R. § 1.116  
U. S. Application No. 09/116,589

**IN THE CLAIMS:**

**The claims are amended as follows:**

1. (Cancelled)
2. (Cancelled)
3. (Cancelled)
4. (Cancelled)
5. (Cancelled)
6. (Cancelled)
7. (Cancelled)
8. (Cancelled)
9. (Cancelled)
10. (Cancelled)
11. (Cancelled)
12. (Cancelled)
13. (Cancelled)
14. (Cancelled)
15. (Cancelled)
16. (Cancelled)
17. (Cancelled)
18. (Cancelled)
19. (Cancelled)

AMENDMENT UNDER 37 C.F.R. § 1.116  
U. S. Application No. 09/116,589

20. (Cancelled)

21. (Cancelled)

22. (Cancelled)

23. (Cancelled)

24. (Cancelled)

25. (Cancelled)

26. (Cancelled)

27. (Cancelled)

28. (Currently Amended) A method of fabricating a hologram-recorded medium which is an imagewise or other pattern-recorded medium comprising a collection of pixels, and in which any one of a plurality of volume type diffraction gratings comprising volume holograms and differing from each other is assigned to at least a part of said pixels, the method comprising:

stacking a photosensitive material, capable of recording a volume hologram, on a first reflection type relief hologram, and

striking reconstructing illumination light of given wavelength on said first reflection type relief hologram through said photosensitive material, so that first interference fringes produced by interference of light diffracted from said first reflection type relief hologram and the incident light are recorded in said photosensitive material,

replacing said first reflection type relief hologram with a second reflection type relief hologram and striking reconstructing illumination light of the given wavelength on said second reflection type relief hologram through said photosensitive material, so that second interference

AMENDMENT UNDER 37 C.F.R. § 1.116  
U. S. Application No. 09/116,589

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fringes produced by interference of light diffracted from said second reflection type relief  
hologram and the incident light are recorded in said photosensitive material,

wherein each of said first and second reflection type relief ~~hologram~~ holograms  
comprises a computer generated hologram (CGH).

29. (Currently Amended) A method of fabricating a hologram-recorded medium which  
is an imagewise or other pattern-recorded medium comprising a collection of pixels, and in  
which any one of a plurality of volume type diffraction gratings comprising volume holograms  
and differing from each other is assigned to at least a part of said pixels, the method comprising:

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stacking a photosensitive material, capable of recording a volume hologram, on a first  
transmission type hologram,

striking reconstructing illumination light of given wavelength on a first side of said first  
transmission type hologram that is opposite a second side of said first transmission type  
hologram which is facing said photosensitive material, so that first interference fringes produced  
by interference of light diffracted from said first transmission type hologram and reference light  
incident on said photosensitive material are recorded in said photosensitive material,

replacing said first transmission type hologram with a second transmission type hologram  
and striking reconstructing illumination light of the given wavelength on said second  
transmission type hologram through said photosensitive material, so that second interference  
fringes produced by interference of light diffracted from said second transmission type hologram  
and the incident light are recorded in said photosensitive material,

wherein each of said first and second transmission type ~~hologram~~ holograms comprises a  
computer generated hologram (CGH).

AMENDMENT UNDER 37 C.F.R. § 1.116  
U. S. Application No. 09/116,589

30. (Cancelled)
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51. (Cancelled)

AMENDMENT UNDER 37 C.F.R. § 1.116  
U. S. Application No. 09/116,589

52. (Cancelled)

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62. (Cancelled)

63. (Cancelled)

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64. (Previously Added) The method of fabricating a hologram-recorded medium of  
claim 28, wherein the computer generated hologram is fabricated using an electron beam.